



# Southeast Phytoplankton Monitoring Network

Promoting a better understanding of  
Harmful Algal Blooms by way of Volunteer Monitoring

Partnering With:



## Formula Sheet: Volume & Surface Area



Volume of **cube**  $V = \text{length} \times \text{base} \times \text{height}$

Surface area of **cube**  $SA = 6 \times (\text{length of edge})^2$

Volume of **rectangular**  $V = a b c$

Surface area of a **rectangular**  $SA = 2ab + 2ac + 2bc$



Volume of **prism**  $V = \text{area of base} \times \text{height}$

Surface area of **prism**  $SA = \text{sum of areas of the faces}$



Volume of **cylinder**  $V = \text{area of base} \times 2 \times \text{height}$

Surface area of **cylinder**  $SA = \text{circumference of base} \times \text{height} + 2(\text{area of base})$



Volume of **pyramid**  $V = \frac{1}{3}(\text{area of base}) \times \text{height}$

Surface area of **pyramid**  $SA = \frac{1}{2}(\text{parameter of base}) \times \text{slant height} + \text{area of base}$



Volume of **cone**  $V = \frac{1}{3}(\text{area of base}) \times \text{height}$

Surface area of **cone**  $SA = \frac{1}{2}(\text{circumference of base}) \times \text{slant height} + \text{area of base}$



Volume of **sphere**  $V = \frac{4}{3}\pi r^3$

Surface area of **sphere**  $SA = 4\pi r^2$

Note:  $(\pi) 3.141592\dots$